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## CLAIMS

1. A pyrazole compound represented by the formula(a):

$$R^{1}$$
 $R^{3}$ 
 $R^{2}$ 
 $R^{4}$ 
 $R^{2}$ 
 $R^{4}$ 
 $R^{5}$ 
 $R^{5}$ 
 $R^{5}$ 
 $R^{5}$ 
 $R^{5}$ 
 $R^{5}$ 

5 wherein,

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R<sup>1</sup> represents a hydrogen atom, a C1 to C4 alkyl group or a tifluoromethyl group;

R<sup>2</sup> represents a C1 to C4 alkyl group;

R<sup>3</sup> represents a hydrogen atom, a C1 to C6 alkyl group, a C1 to C6 haloalkyl group, a C2 to C6 alkenyl group, a C2 to C6 haloalkenyl group, a C2 to C6 alkynyl group, a C2 to C6 haloalkynyl group, a C1 to C5 hydroxyalkyl group, a C2 to C6 alkoxyalkyl group, a C2 to C6 alkoxyalkyl group, a C2 to C6 alkenyloxycarbonyl group, a C4 to C6 haloalkenyloxycarbonyl group, a C4 to C6 haloalkenyloxycarbonyl group, a halogen atom or a cyano group;

R<sup>4</sup> represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

m represents an integer of 0 to 4 and when m is an integer of 2 to 4, each of  $R^4$ s may be the same or different;

R<sup>5</sup> represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

n represents an integer of 0 to 4 and when n is an integer of 25 2 to 4, each of  $R^5$ s may be the same or different;

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each of R<sup>6</sup> and R<sup>7</sup> may be the same or different and represents a hydrogen atom, a halogen atom or a methyl group;

Qrepresents an oxygen atom, a sulfur atom or a C1 to C5 alkylidene.

5 2. The pyrazole compound according to claim 1, wherein  ${\bf R}^1$  is a C1 to C4 alkyl group or a tifluoromethyl group;  ${\bf R}^2$  is a C1 to C4 alkyl group;

 $\mathbb{R}^3$  is a hydrogen atom, a C1 to C6 alkyl group, a C1 to C6 haloalkyl group, a C2 to C6 alkenyl group, a C2 to C6 haloalkenyl group,

10 a C2 to C6 alkynyl group, a C2 to C6 haloalkynyl group, a C1 to C5 hydroxyalkyl group, a C2 to C6 alkoxyalkyl group, a C2 to C6 alkoxycarbonyl group, a C4 to C6 alkenyloxycarbonyl group, a C4 to C6 haloalkenyloxycarbonyl group or a cyano group;

R4 is a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy

group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group; m is an integer of 0 to 4 and when m is an integer of 2 to 4, each of  $\mathbb{R}^4$ s may be the same or different;

R<sup>5</sup> is a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

20 n is an integer of 0 to 4 and when n is an integer of 2 to 4, each of  ${\bf R}^5{\bf s}$  may be the same or different;

each of  $R^6$  and  $R^7$  may be the same or different and is a hydrogen atom, a halogen atom or a methyl group;

Q represents an oxygen atom in the formula (a).

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3. The pyrazole compound according to claim 1, wherein R<sup>3</sup> is a C1 to C6 alkyl group, a C1 to C6 haloalkyl group, a C2 to C6 alkenyl group or a C2 to C6 alkynyl group in the formula

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(a).

4. The pyrazole compound according to claim 1, wherein  $\mathbb{R}^3$  is a halogen atom in the formula (a).

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- 5. The pyrazole compound according to claim 1, wherein  $R^1$  is a C1 to C4 alkyl group or trifluoromethyl group in the formula (a).
- 10 6. The pyrazole compound according to claim 1, wherein  $\mathbb{R}^1$  is a methyl group in the formula (a).
  - 7. The pyrazole compound according to claim 1, wherein Q is an oxygen atom in the formula (a).

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- 8. The pyrazole compound according to claim 1, wherein m is an integer of 0 in the formula (a).
- 9. The pyrazole compound according to claim 1, wherein 20 n is an integer of 0 in the formula (a).
  - 10. The pyrazole compound according to claim 1, wherein m is an integer of 0 and n is an integer of 0 in the formula (a).

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11. The pyrazole compound according to claim 1, wherein  $R^6$  and  $R^7$  are chlorine atoms in the formula (a).

- 12. A noxious arthropod pests controlling composition comprising the pyrazole compound according to claim las an active ingredient and an inert carrier.
- 13. A method for controlling noxious arthropod pests comprising applying an effective amount of the pyrazole compound according to claim 1 to noxious arthropod pests or habitat noxious arthropod pests.
- 10 14. A use of the pyrazole compound according to claim 1 as a noxious arthropod pests controlling composition.
  - 15. A compound of formula (b):

$$R^1$$
 $R^8$ 
 $R^2$ 
 $(R^4)_m$ 
 $(R^5)_n$ 

15 wherein,

 $R^1$  represents a hydrogen atom, a C1 to C4 alkyl group or a tifluoromethyl group;

R<sup>2</sup> represents a C1 to C4 alkyl group;

R<sup>8</sup> represents a hydrogen atom, a C1 to C6 alkyl group, a C1 to C6 haloalkyl group, a C2 to C6 alkenyl group, a C2 to C6 haloalkenyl group, a C2 to C6 alkynyl group, a C2 to C6 haloalkynyl group, a C1 to C5 hydroxyalkyl group, a C2 to C6 alkoxyalkyl group, a C2 to C6 alkoxycarbonyl group, a C4 to C6 alkenyloxycarbonyl group, a C4 to C6 haloalkenyloxycarbonyl group, a C4 to C6 haloalkenyloxycarbonyl group, a carboxyl group,

25 a halogen atom or a cyano group;

R<sup>4</sup> represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

m represents an integer of 0 to 4 and when m is an integer of 2 to 4, each of R<sup>4</sup>s may be the same or different;

R<sup>5</sup> represents a halogen atom, a C1 to C3 alkyl group, a C1 to C3 alkoxy group, a C1 to C3 haloalkyl group or a C1 to C3 haloalkoxy group;

n represents an integer of 0 to 4 and when n is an integer of 2 to 4, each of R<sup>5</sup>s may be the same or different;

Q represents an oxygen atom, a sulfur atom or a C1 to C5 alkylidene group.

16. The compound according to claim 15, wherein R<sup>8</sup> is a a C1 to C6 alkyl group, a C2 to C6 alkenyl group, a C2 to C6 alkynyl group or a halogen atom in the formula (b).